

## EAST SEARCH

6/6/03

L#	Hits	Search String	Databases
L1	2	5.781,320.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	2	5.920,711.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	5.745,386.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	2	5.715,432.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	2	5.375,070.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	2	5.544,066.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	359	ATM/SONET or "ATM SONET" or "SONET ATM" or (ATM/SONET or "ATM SONET" or "SONET ATM") and (framer or framing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	71	(ATM/SONET or "ATM SONET" or "SONET ATM") and parameter\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	190	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	62	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L12	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L13	28	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L14	1	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L15	1	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L16	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L17	54	((ATM/SONET or "ATM SONET" or "SONET ATM") and (clock with (synchronization) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L18	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and (clock with (synchronization) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L19	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and (built-in adj test\$1) and (built-in adj test\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L20	0	((ATM/SONET or "ATM SONET" or "SONET ATM") and ("built-in tests"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L21	8	((ATM/SONET or "ATM SONET" or "SONET ATM") and (framer or framing)) and s USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L22	11	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and "behavore USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L23	18	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and parameter USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L24	19	((ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3) and UTOPIA	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L25	21	((ATM/SONET or "ATM SONET" or "SONET ATM") and parameter\$1) and UTOPI, USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L26	1	((ATM/SONET or "ATM SONET" or "SONET ATM") and (UTOPIA with level\$3) and (UTOPIA with level\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L27	166	UTOPIA with level\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L28	155	(UTOPIA with level\$3) and (ATM or SONET)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L29	0	((UTOPIA with level\$3) and (ATM or SONET)) and Simulat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L30	44	((UTOPIA with level\$3) and (ATM or SONET)) and parameter\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L31	27	((UTOPIA with level\$3) and (ATM or SONET)) and parameter\$1 and FIFO	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L32	18	((ATM/SONET or "ATM SONET" or "SONET ATM") and (line adj rate\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L33	5	((ATM/SONET or "ATM SONET" or "SONET ATM") and ("clock frequencies"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L34	11	((ATM or SONET) and ("clock frequencies"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L35	6	((ATM or SONET) and (built-in adj test\$1)) and simulat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L36	8	((ATM or SONET) and (built-in adj test\$1)) and SONET	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

31 (ATM/SONET or "ATM SONET" or "SONET ATM") and framer  
 2 ((ATM/SONET or "ATM SONET" or "SONET ATM") and framer ) and simulat\$3  
 474 (ATM or SONET) and framer  
 30 ((ATM or SONET) and framer ) and simulat\$3  
 3 ((ATM/SONET or "ATM SONET" or "SONET ATM") with framer  
 2 (ATM/SONET or "ATM SONET" or "SONET ATM") same simulat\$3  
 1 UTOPIA same simulat\$3  
 413 (ATM or SONET) same simulat\$3  
 4 (ATM and SONET) same simulat\$3  
 33 simulat\$3 near2 (ATM or SONET)  
 27 (ATM or SONET) and (built-in adj test\$1)  
 75 (ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3  
 2 6.417 943 pn.  
 1 6.417 943 pn. and (ATM/SONET or "ATM SONET" or "SONET ATM") and simulat\$3  
 359 ATM/SONET or "ATM SONET" or "SONET ATM"  
 229 ((ATM/SONET or "ATM SONET" or "SONET ATM") and fram\$3  
 209 ((ATM/SONET or "ATM SONET" or "SONET ATM") and fram\$3) and (receive\$1 ar USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB  
 46 (((ATM/SONET or "ATM SONET" or "SONET ATM") and fram\$3) and (receive\$1 a USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB  
 2 fiber line card  
 359 ATM/SONET or "ATM SONET" or "SONET ATM"  
 106 (ATM/SONET or "ATM SONET" or "SONET ATM") and transceiver  
 1 (((ATM/SONET or "ATM SONET" or "SONET ATM") and transceiver) and framer); USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB  
 19 ((ATM/SONET or "ATM SONET" or "SONET ATM") and transceiver) and framer  
 0 ((ATM/SONET or "ATM SONET" or "SONET ATM") and transceiver same simulat\$ USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB  
 46 ((ATM/SONET or "ATM SONET" or "SONET ATM") and transceiver) and simulat\$; USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM\_TDB  
 148 transceiver same framer  
 0 transceiver same framer same simulat\$3  
 8 framer same simulat\$3  
 15 (transceiver same framer ) and simulat\$3  
 361 framer with (chip\$1 or IC\$1 or circuit\$1)  
 86 (framer with (chip\$1 or IC\$1 or circuit\$1)) and SONET  
 37 ((framer with (chip\$1 or IC\$1 or circuit\$1)) and SONET) and ATM  
 204 framer near2 (chip\$1 or IC\$1 or circuit\$1)  
 55 (framer near2 (chip\$1 or IC\$1 or circuit\$1)) and SONET  
 22 ((framer near2 (chip\$1 or IC\$1 or circuit\$1)) and SONET) and ATM  
 387 ATM/SONET or "ATM SONET" or "SONET ATM" or "SONET/ATM"  
 9206 Integrated circuit and simulation  
 39 ("Integrated circuit" and simulation) and (simulation with "behavioral model")  
 67 Sonet same ("clock rate" or "clock frequency")  
 190 ATM same ("clock rate" or "clock frequency")  
 8 (Sonet same ("clock rate" or "clock frequency") and (ATM same ("clock rate" or "clock frequency")) and FIFO  
 18 (Sonet same ("clock rate" or "clock frequency")) and FIFO

L1 68 370/395.51.ccis.  
L2 2045 370/465-466.ccis.  
L3 104 370/907.ccis.  
L4 2181 1 or 2 or 3  
L5 351 4 and (SONET or SDH)  
L6 21 5 and simulai\$3

09/505748 Raikumar Singh et al.

EAST SEARCH

6/6/03

<u>Results of search set L.39: <u>(({ATM or SONET) and framer}) and simulat\$3</u></u>	<u>Source</u>	<u>Issue Date</u>	<u>Current OR</u>
Document)document II Title			
US 20020186721 A1 Methods and systems for monitoring traffic received from and loading simulated traffic on broadband comm	2002/12/12 370/522	2002/11/28 705/26	
US 20020178072 A1 Online shopping mall virtual association	2002/11/28 705/26	2002/11/28 705/225	
US 20020165961 A1 Network device including dedicated resources control plane	2002/10/31 345/850	2002/10/17 705/26	
US 20020158916 A1 Graphical e-commerce shopping terminal system and method	2002/10/17 705/26	2002/08/22 709/223	
US 20020152127 A1 Tightly-coupled online representations for geographically-centered shopping complexes	2002/08/22 709/223	2002/08/22 704/233	
US 20020116485 A1 Out-of-band network management channels	2002/07/04 370/535	2002/06/20 379/390.02	
US 200201161186 A1 Voice activity detector for integrated telecommunications processing	2002/05/30 370/289		
US 20020085590 A1 Method and apparatus for inserting user data into sonet data communications channel			
US 20020076034 A1 Tone detection for integrated telecommunications processing			
US 20020064139 A1 Network echo canceller for integrated telecommunications processing			

## Abstract

US 20020057018 A1	Network device power distribution scheme	20020516 307/42
US 20020001307 A1	VPI/VCI availability index	20020103 370/386
US 6456608 B1	Adaptive vector correlator using weighting signals for spread-spectrum communications	20020924 370/335
US 6427179 B1	System and method for protocol conversion in a communications system	20020730 710/64
US 6364541 B1	Method and apparatus for optical reception	20020402 385/92
US 6275499 B1	OC3 delivery unit; unit controller	20010814 370/438
US 6236653 B1	Local telephone service over a cable network using packet voice	20010522 370/352
US 6208637 B1	Method and apparatus for the generation of analog telephone signals in digital subscriber line access system	20010327 370/352
US 6157947 A	Method, apparatus, system, and program storage device for distributing intellectual property	20001205 709/217
US 6065131 A	Multi-speed DSP kernel and clock mechanism	20000516 713/600
US 5987031 A	Method for fair dynamic scheduling of available bandwidth rate (ABR) service under asynchronous transfer	19991116 370/412
US 5978377 A	STM-based ATM cell physical layer processing circuit	19991102 370/395.71
US 5852651 A	Cellular communications system with sectorization	19981222 379/56.2
US 5717691 A	Multimedia network interface for asynchronous transfer mode communication system	19980210 370/401
US 5657374 A	Cellular communications system with centralized base stations and distributed antenna units	19970812 370/328
US 5644622 A	Cellular communications system with centralized base stations and distributed antenna units	19970701 455/422
US 5642405 A	Cellular communications system with centralized base stations and distributed antenna units	19970624 455/444
US 5627879 A	Cellular communications system with centralized base stations and distributed antenna units	19970506 370/328
US 5621786 A	Cellular communications system having passive handoff	19970415 455/436
US 5550816 A	Method and apparatus for virtual switching	19960827 370/397



## Search Results

Search Results for: [ATM and (SONET or SDH) and simulat\* and (IC\* or chip\* or ASIC\* or circuit\*)]

Found 80 of 110,773 searched. → Rerun within the Portal

Search within Results

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Sort by: Title Publication Publication Date Score

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Results 1 - 20 of 80 short listing

1 2 3 4 5

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**1** Standardization for ATM and related B-ISDN technologies 99%  
 David Cypher , Shukri Wakid  
StandardView September 1993  
Volume 1 Issue 1

**2** Design and synthesis of array structured telecommunication 98%  
 processing applications  
Wolfgang Meyer , Andrew Seawright , Fumiya Tada  
Proceedings of the 34th annual conference on Design automation  
conference June 1997

**3** An architecture for QoS analysis and experimentation 98%  
 William S. Marcus  
IEEE/ACM Transactions on Networking (TON) August 1996  
Volume 4 Issue 4

**4** Implementation of a SDH STM-N IC for B-ISDN using VHDL based 96%  
 synthesis tools  
Juan Carlos Calderón , Enric Corominas , José M. Tapia , Luis París  
Proceedings of the conference on European design automation  
conference September 1994

**5** A passive protected self-healing mesh network architecture and applications 91%  
Tsong-Ho Wu  
IEEE/ACM Transactions on Networking (TON) February 1994  
Volume 2 Issue 1

**6** A host-network interface architecture for ATM 90%  
Bruce S. Davie  
ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols August 1991  
Volume 21 Issue 4

**7** Protection interoperability for WDM optical networks 88%  
Olivier Crochat , Jean-Yves Le Boudec , Ornan Gerstel  
IEEE/ACM Transactions on Networking (TON) June 2000  
Volume 8 Issue 3

**8** Design of a high-performance ATM firewall 88%  
Jun Xu , Mukesh Singhal  
ACM Transactions on Information and System Security (TISSEC) August 1999  
Volume 2 Issue 3  
A router-based packet-filtering firewall is an effective way of protecting an enterprise network from unauthorized access. However, it will not work efficiently in an ATM network because it requires the termination of end-to-end ATM connections at a packet-filtering router, which incurs huge overhead of SAR (Segmentation and Reassembly). Very few approaches to this problem have been proposed in the literature, and none is completely satisfactory. In this paper we present the hardware design ...

**9** Multimedia networks: fundamentals and future directions 87%  
Nalin Sharda  
Communications of the AIS February 1999

**10** The hop-limit approach for spare-capacity assignment in survivable networks 87%  
Meir Herzberg , Stephen J. Bye , Anthony Utano  
IEEE/ACM Transactions on Networking (TON) December 1995  
Volume 3 Issue 6

**11** An architecture for packet-striping protocols 85%  
Adiseshu Hari , George Varghese , Guru Parulkar

## ACM Transactions on Computer Systems (TOCS) November 1999

## Volume 17 Issue 4

Link-striping algorithms are often used to overcome transmission bottlenecks in computer networks. Traditional striping algorithms suffer from two major disadvantages. They provide inadequate load sharing in the presence of variable-length packets, and may result in non-FIFO delivery of data. We describe a new family of link-striping algorithms that solves both problems. Our scheme applies to any layer that can provide multiple FIFO channels. We deal with variable-sized packets by showing h ...

**12** Military applications: Simulation methods for analysis of traffic 84% processes in ATM networks

Kenneth Y. Jo , Christopher Munk

Proceedings of the 32nd conference on Winter simulation December 2000

This paper presents efficient simulation methods for analyzing modern, large-scale networks and evaluating their performance attributes. Characterizing traffic flows from multiple sources and applications is key in assessing overall network performance measures. It is essential to have quantitative network cost and performance measures in order to plan, design, and implement modern, large-scale networks such as the Advanced Distributed Learning Network (ADLN). ADLN requires integrated, multimed ...

**13** Protocol stacked-based telecon emulator 84% Takahiro Murooka , Toshiaki Miyazaki

Proceedings of the conference on Design, automation and test in Europe January 2000

**14** A 50-Gb/s IP router 84% Craig Partridge , Philip P. Carvey , Ed Burgess , Isidro Castineyra , Tom Clarke , Lise Graham , Michael Hathaway , Phil Herman , Allen King , Steve Kohalmi , Tracy Ma , John Mcallen , Trevor Mendez , Walter C. Milliken , Ronald Pettyjohn , John Rokosz , Joshua Seeger , Michael Sollins , Steve Storch , Benjamin Tober , Gregory D. Troxel

IEEE/ACM Transactions on Networking (TON) June 1998

Volume 6 Issue 3

**15** A reliable and scalable striping protocol 84% Hari Adiseshu , Guru Parulkar , George Varghese

ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications August 1996

Volume 26 Issue 4

Link striping algorithms are often used to overcome transmission bottlenecks in computer networks. Traditional striping algorithms suffer from two major disadvantages. They provide inadequate load sharing in the presence of variable length packets, and may result in non-FIFO delivery of data. We describe a new family of link striping algorithms that solves both problems. Our scheme applies to any layer that can provide multiple FIFO channels. We deal with variable sized packets ...

**16** Session 21: computer-communication interaction: Using high 82%

speed networks to enable distributed parallel image server systems

Brian L. Tierney , William E. Johnston , Hanan Herzog , Gary Hoo , Guojun Jin , Jason Lee , Ling Tony Chen , Doron Rotem

Proceedings of the 1994 ACM/IEEE conference on Supercomputing November 1994

We describe the design and implementation of a distributed parallel storage system that uses high-speed ATM networks as a key element of the architecture. Other elements include a collection of network-based disk block servers, and an associated name server that provides some file system functionality. The implementation is based on user level software that runs on UNIX workstations. Both the architecture and the implementation are intended to provide for easy and economical scalability. This ap ...

**17** Credit-based fair queueing (CBFQ): a simple service-scheduling 82%

algorithm for packet-switched networks

Brahim Bensaou , Danny H. K. Tsang , King Tung Chan

IEEE/ACM Transactions on Networking (TON) October 2001

Volume 9 Issue 5

This paper proposes a simple rate-based scheduling algorithm for packet-switched networks. Using a set of counters to keep track of the credits accumulated by each traffic flow, the bandwidth share allocated to each flow, and the size of the head-of-line (HOL) packets of the different flows, the algorithm decides which flow to serve next. Our proposed algorithm requires on average a smaller complexity than the most interesting alternative ones while guaranteeing comparable fairness, delay, and d ...

**18** Survivability performance analysis of rerouting strategies in an 82%

ATM/VP DCS survivable mesh network

Kyamakya Kyandoghere

ACM SIGCOMM Computer Communication Review October 1998

Volume 28 Issue 5

Several self-healing protocols utilizing virtual paths have been

proposed in the relevant literature. Those which work in a mesh topology function according to three main rerouting strategies (though specific flooding administrations differ): local rerouting, source-destination rerouting, and local-destination rerouting. Most performance studies of self-healing protocols have considered restoration time as sole performance metric. This would have to be within the 2s threshold in order to guarant ...

**19** Design of a SPDIF receiver using protocol compiler 82%

 Ulrich Holtmann , Peter Blinzer

Proceedings of the 35th annual conference on Design automation conference May 1998

This paper describes the design of a receiver for the digital audio signal SPDIF used by CD-ROM players. The design was done with Protocol Compiler, a high-level synthesis tool for the design of structured data stream processing controllers. Compared to traditional RTL design, Protocol Compiler makes entry, debugging, and re-use easier. Design time was cut by factor 2 while the results in terms of area and delay are competitive.

**20** Queueing analysis of an ATM switch with multichannel 80%

 transmission groups

Arthur Y. M. Lin , John A. Silvester

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1990 ACM SIGMETRICS conference on Measurement and modeling of computer systems April 1990

Volume 18 Issue 1

The discrete-time D[A]/D/c/B queueing system is studied. We consider both a bulk arrival process with constant bulk inter-arrival time (D) and general bulk-size distribution (A) and a periodic arrival process (D<sub>1</sub> + ... + D<sub>N</sub>). The service/transmission times are deterministic (D)

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**Results 1 - 20 of 80      short listing**



## Search Results

Search Results for: [ATM and (SONET or SDH) and simulat\* and (IC\* or chip\* or ASIC\* or circuit\*)]

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**Sort by:** Title Publication Publication Date Score

**Results 21 - 40 of 80 short listing**

**1 2 3 4 5**

**21** A novel generic graph model for traffic grooming in heterogeneous 80%

WDM mesh networks

Hongyue Zhu , Hui Zang , Keyao Zhu , Biswanath Mukherjee

IEEE/ACM Transactions on Networking (TON) April 2003

Volume 11 Issue 2

As the operation of our fiber-optic backbone networks migrates from interconnected SONET rings to arbitrary mesh topology, traffic grooming on wavelength-division multiplexing (WDM) mesh networks becomes an extremely important research problem. To address this problem, we propose a new generic graph model for traffic grooming in heterogeneous WDM mesh networks. The novelty of our model is that, by only manipulating the edges of the auxiliary graph created by our model and the weights of these ed ...

**22** On the reconfigurability of single-hub WDM ring networks 80%

Kayi Lee , Kai-Yeung Siu

IEEE/ACM Transactions on Networking (TON) April 2003

Volume 11 Issue 2

We study the benefit of reconfigurability for wavelength division multiplexed (WDM) ring networks with dynamic single-hubbed traffic. We show that the ability to reconfigure wavelength add-drop multiplexers helps to reduce the number of expensive line terminating equipment (LTEs) by a factor of  $W$ , where  $W$  is the

number of wavelengths in the network. In addition, we show that for a general class of traffic, optical networks using reconfigurable wavelength add-drop multiplexers guaran ...

**23** Concurrent round-robin-based dispatching schemes for 80%

 Clos-network switches

Eiji Oki , Zhigang Jing , Roberto Rojas-Cessa , H. Jonathan Chao  
IEEE/ACM Transactions on Networking (TON) December 2002

Volume 10 Issue 6

A Clos-network switch architecture is attractive because of its scalability. Previously proposed implementable dispatching schemes from the first stage to the second stage, such as random dispatching (RD), are not able to achieve high throughput unless the internal bandwidth is expanded. This paper presents two round-robin-based dispatching schemes to overcome the throughput limitation of the RD scheme. First, we introduce a concurrent round-robin dispatching (CRRD) scheme for the Clos-network s ...

**24** Global optimization of SDH networks: a practical application 80%

 Dirk Beckmann , Jörn Thurow

International Journal of Network Management January 2003

Volume 13 Issue 1

We describe in this paper how the backbone network of a major German telecommunication company has been globally optimized using the so-called branch-and-bound algorithm. The described optimization approach enables significant reductions of expenses for leased lines compared to manually derived planning results. This gain achieved by the presented optimization approach is also demonstrated by the comparison with a heuristic algorithm which is used for the simulation of a human network planning p ...

**25** Wormhole IP over (connectionless) ATM 80%

 Manolis G. H. Katevenis , Iakovos Mavroidis , Georgios Sapountzis , Eva Kalyvianaki , Ioannis Mavroidis , Georgios Glykopoulos  
IEEE/ACM Transactions on Networking (TON) October 2001

Volume 9 Issue 5

High-speed switches and routers internally operate using fixed-size cells or segments; variable-size packets are segmented and later reassembled. Connectionless ATM was proposed to quickly carry IP packets segmented into cells (AAL5) using a number of hardware-managed ATM VCs. We show that this is analogous to wormhole routing. We modify this architecture to make it applicable to existing ATM equipment: we propose a low-cost, single-input, single-output Wormhole IP Router that functions as a VP/ ...

**26** From voice-band modems to DSL technologies 80%

 International Journal of Network Management September 2001  
Volume 11 Issue 5

This paper provides an overview of the evolution of digital transmission in the copper access network from voice-band modems to Digital Subscriber Line (DSL) technologies. The various types of DSL technology are described. Copyright © 2001 John Wiley & Sons, Ltd.

**27** Illustrative risks to the public in the use of computer systems and 80%

 related technology  
Peter G. Neumann  
ACM SIGSOFT Software Engineering Notes January 1996  
Volume 21 Issue 1

**28** Design of an ATM switch for handoff support 80%

 Heechang Kim , H. Jonathan Chao  
Wireless Networks December 2000  
Volume 6 Issue 6

In a wireless ATM system, a network must provide seamless services to mobile users. To support this, mobility function should be added to existing ATM networks. Through a handoff operation, a mobile user can receive a service from the network without disconnecting the communication. A handoff results in connection path rerouting during an active connection. To avoid cell loss during a handoff, cell buffering and rerouting are required in the network. A handoff switch is a connection breakdown ...

**29** The use of hop-limits to provide survivable ATM group 80%

 communications  
William Yurcik , David Tipper , Deepankar Medhi  
Proceedings of NGC 2000 on Networked group communication  
November 2000

We examine the use of a hop-limit constraint with techniques to provide survivability for connection-oriented ATM group communications. A hop-limit constraint is an approach that has evolved

from solving point-to-point routing problems but has not been fully developed for group communications. A hop-limit: (1) limits the number of routes considered such that the routing problems of higher order complexity can be solved and (2) limits the length of any individual route to meet specific Quality ...

**30** Optimal capacity and flow assignment for self-healing ATM 80%

 networks based on line and end-to-end restoration

Kazutaka Murakami , Hyong S. Kim

IEEE/ACM Transactions on Networking (TON) April 1998

Volume 6 Issue 2

**31** Link layer retransmission schemes for circuit-mode data over the 80%

 CDMA physical channel

Mooi Choo Chuah , Bharat Doshi , Subra Dravida , Richard Ejzak , Sanjiv Nanda

Mobile Networks and Applications October 1997

Volume 2 Issue 2

In the last few years, wide-area data services over North American digital (TDMA and CDMA) cellular networks have been standardized. The standards were developed under three primary constraints: (i) compatibility with existing land-line standards and systems, (ii) compatibility with existing cellular physical layer standards that are optimized for voice, and (iii) market demands for quick solutions. In particular, the IS-95 CDMA air interface standard permits multiplexing of primary traffic ...

**32** Increasing throughput in ATM/B-ISDN using simple buffer 80%

 management and selective discarding

Samir Chatterjee , Wen Xiao

ACM SIGCOMM Computer Communication Review October 1997

Volume 27 Issue 5

If the reliability provided by the network is lower than that requested by the application, the error and flow control systems in the end-nodes must make up for the difference. While most applications use retransmission based schemes to recover lost data, ARQ based closed loop techniques may not be suitable for many new applications. Time sensitive information requiring no-loss of data would constitute a major segment of the emerging traffic (interactive web, videophones, CSCW) that typically em ...

**33** A brief overview of ATM: protocol layers, LAN emulation, and 80%

 traffic management

Kai-Yeung Siu , Raj Jain

ACM SIGCOMM Computer Communication Review April 1995

Volume 25 Issue 2

Asynchronous Transfer Mode (ATM) has emerged as the most promising technology in supporting future broadband multimedia communication services. To accelerate the deployment of ATM technology, the ATM Forum, which is a consortium of service providers and equipment vendors in the communication industries, has been created to develop implementation and specification agreements. In this article, we present a brief overview on ATM protocol layers and current progress on LAN Emulation and Traffic ...

**34** Design and analysis of a large-scale multicast output buffered ATM 80%

 switch

H. Jonathan Chao , Byeong-Seog Choe

IEEE/ACM Transactions on Networking (TON) April 1995

Volume 3 Issue 2

**35** Reliable and efficient hop-by-hop flow control

80%

 Cüneyt Özveren , Robert Simcoe , George Varghese

ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications October 1994

Volume 24 Issue 4

Hop-by-hop flow control can be used to fairly share the bandwidth of a network among competing flows. No data is lost even in overload conditions; yet each flow gets access to the maximum throughput when the network is lightly loaded. However, some schemes for hop-by-hop flow control require too much memory; some of them are not resilient to errors. We propose a scheme for making hop-by-hop flow control resilient and show that it has advantages over schemes proposed by Kung. We also describ ...

**36** Analyzing the fault tolerance of double-loop networks

80%

 Jon M. Peha , Fouad A. Tobagi

IEEE/ACM Transactions on Networking (TON) August 1994

Volume 2 Issue 4

**37** A high performance transparent bridge

80%

 Martina Zitterbart , Ahmed N. Tantawy , Dimitrios N. Serpanos

IEEE/ACM Transactions on Networking (TON) August 1994

Volume 2 Issue 4

**38** Network transparency: the plaNET approach 80%  
Inder Gopal , Roch Guérin  
IEEE/ACM Transactions on Networking (TON) June 1994  
Volume 2 Issue 3

**39** About maximum transfer rates for fast packet switching networks 80%  
Jean-Yves Le Boudec  
ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols August 1991  
Volume 21 Issue 4

**40** Session 2A: embedded tutorial: Challenges and opportunities in 77%  
broadband and wireless communication designs  
Jan M. Rabaey , Miodrag Potkonjak , Farinaz Koushanfar , Suet Fei Li , Tim Tuan  
Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design November 2000  
Communication designs form the fastest growing segment of the semiconductor market. Both network processors and wireless chipsets have been attracting a great deal of research attention, financial resources and design efforts. However, further progress is limited by lack of adequate system methodologies and tools. Our goal in this tutorial is to provide impetus for development of communication design techniques and tools. The first part addresses network processors (NP) that we study from three v ...

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**41** Data and Content: MarconiNet supporting streaming media over 77%

localized wireless multicast

Ashutosh Dutta , Subir Das , Wai Chen , Anthony McAuley , Henning Schulzrinne , Onur Altintas

Proceedings of the second international workshop on Mobile commerce

September 2002

Flexible multi-media streaming such as advertisement insertion, location based services, mobility and wireless access are vital components that make existing Internet Radio and TV networks more attractive for the roaming users. All of these applications also provide added value to telematics, and military usage including coordination, education, situation awareness, distributed simulation, battlefield communication and multi-player games. While content distribution over a wired network can be rea ...

---

**42** Papers: Effect of traffic knowledge on the efficiency of 77%

admission-control policies

Ljiljana Trajkovi? , Arnie Neidhardt

ACM SIGCOMM Computer Communication Review January 1999

Volume 29 Issue 1

We investigate the importance of understanding traffic characteristics for admission-control policies in packet networks. We compare the network utilization achieved with admission policies based on a

partial knowledge of admitted traffic against the utilization that could be achieved with complete knowledge of traffic characteristics. Our quantitative study demonstrates that for realistic traffic traces the level of traffic knowledge dramatically affects admission control and improves network u ...

**43** An adaptive FEC scheme for data traffic in wireless ATM networks 77%

 Ian F. Akyildiz , Inwhee Joe , Henry Driver , Yung-Lung Ho  
IEEE/ACM Transactions on Networking (TON) August 2001  
Volume 9 Issue 4

In this paper, a new adaptive forward-error-correction scheme (AFEC) is introduced at the link layer for TCP/IP data traffic in wireless ATM networks. The fading and interference in wireless links cause high and variable error rates, as well as bursty errors. The purpose of the AFEC scheme is to provide a dynamic error-control mechanism by using the Reed-Solomon coding to protect the ATM cell payload, as well as the payload type indicator/cell loss priority fields in the ATM cell header. In orde ...

**44** Efficient algorithms for routing dependable connections in WDM 77%

 optical networks  
G. Mohan , C. Siva Ram Murthy , Arun K. Soman  
IEEE/ACM Transactions on Networking (TON) October 2001  
Volume 9 Issue 5

We consider the problem of establishing *dependable connections* in WDM networks with dynamic traffic demands. We call a connection with fault-tolerant requirements as a dependable connection (D-connection). We consider the *single-link failure model* in our study and recommend the use of a proactive approach, wherein a D-connection is identified with the establishment of the primary lightpath and a backup lightpath at the time of honoring the connection request. We develop algorithms ...

**45** A mapping algorithm for computer-assisted exploration in the 77%

 design of embedded systems  
E. P. Mariatos , A. N. Birbas , M. K. Birbas  
ACM Transactions on Design Automation of Electronic Systems  
(TODAES) January 2001  
Volume 6 Issue 1

We present a technique for automatic exploration of architectural alternatives in the design of complex electronic embedded systems and systems-on-a-chip. The technique transforms the problem into a set of simple model-to-model operations and a mapping algorithm that becomes the core of the entire design process. The mapping algorithm is formulated as an assignment-type problem (ATP), which

is, in turn, solved by a straightforward optimization method. The result is a design assistance tool, ...

**46** A framework for fast hardware-software co-simulation 77%

 A. Hoffman , T. Kogel , H. Meyr

Proceedings of the DATE 2001 on Design, automation and test in Europe  
March 2001

**47** An overview of the communications and information technology 77%

 research center (CICTR) at Pennsylvania State University

Mohsen Kavehrad

ACM SIGMOBILE Mobile Computing and Communications Review April  
2000  
Volume 4 Issue 2

**48** An overview of the University of Texas at Dallas' center for 77%

 advanced telecommunications systems and services (CATSS)

Imrich Chlamtac , Stefano Basagni , Stephen Gibbs

ACM SIGMOBILE Mobile Computing and Communications Review April  
2000

Volume 4 Issue 2

The University of Texas at Dallas' Center for Advanced  
Telecommunications Systems and Services (CATSS) was founded in  
January 1998 to satisfy the acute needs of the growing  
Dallas/Richardson telecommunications industry. Its mission is to  
foster a strong Industry-University partnership to advance local  
telecommunications industries to the next generation of systems and  
products. Composed of UTD faculty and industry researchers and  
managers, the Center's focus is exclusively telecommunications-rel

...

**49** Computer-aided system integration for data-intensive multimedia 77%

 applications (poster session)

Sami J. Habib , Alice C. Parker

Proceedings of the eighth ACM international conference on Multimedia  
October 2000

In this paper we describe a computer-aided design  
(CAD) tool for automatically designing and integrating  
network and data management hardware for  
data-intensive multimedia applications, such as the  
animation film studio. The tool determines the network  
strategy, interconnection hardware required, number

and location of proxies and servers, and file allocation.

**50** Trajectory sampling for direct traffic observation 77%

 N. G. Duffield , M. Grossglauser

ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication August 2000

Volume 30 Issue 4

Traffic measurement is a critical component for the control and engineering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netwo ...

**51** The transport layer: tutorial and survey 77%

 Sami Iren , Paul D. Amer , Phillip T. Conrad

ACM Computing Surveys (CSUR) December 1999

Volume 31 Issue 4

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

**52** Modeling and simulation of the interference due to digital switching in mixed-signal ICs 77%

 in mixed-signal ICs

Alper Demir , Peter Feldmann

Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design November 1999

The paper introduces a methodology for the evaluation of the interference noise, caused by digital switching activity, in sensitive circuits of a mixed-digital-analog chip. The digital switching activity is modeled stochastically as functions defined on Markov chains. The actual interference signal is obtained through the modulation of this discrete stochastic signal with real current injection patterns stored a priori in a pre-characterized library. The interference noise results from the ...

**53** A rate-based congestion control scheme for ABR service in ATM 77%

 networks

Anna Ha? , Yingjun Ma

International Journal of Network Management October 1998

Volume 8 Issue 5

In this article we describe an improved rate-based congestion control scheme for Available Bit Rate &lt;math>ABR&lt;/math> service in ATM networks. The analytical results are presented and the characteristics of the designed scheme are illustrated by using simulation results. © 1998 John Wiley & Sons, Ltd.

**54** Network planning with a performance-prediction tool 77%

 Stephen D. Post

International Journal of Network Management May 1999

Volume 9 Issue 3

A new type of tool facilitates network engineering by combining the speed and practicality of mathematical analysis with a graphic user interface that is customized for network modeling. Copyright © 1999 John Wiley & Sons, Ltd.

**55** Packet-switched local area networks using wavelength-selective 77%

 station couplers

Adrian Grah , Terence D. Todd

IEEE/ACM Transactions on Networking (TON) April 2000

Volume 8 Issue 2

**56** Provisioning algorithms for WDM optical networks 77%

 Murat Alanyali , Ender Ayanoglu

IEEE/ACM Transactions on Networking (TON) October 1999

Volume 7 Issue 5

**57** High availability path design in ring-based optimal networks 77%

 Wayne D. Grover

IEEE/ACM Transactions on Networking (TON) August 1999

Volume 7 Issue 4

**58** Integration of circuit and packet switched transport in a 3RD 77%

 generation mobile network

Andrea Calvi , Francisco Cano Hila

Proceedings of the fourth annual ACM/IEEE international conference on Mobile computing and networking October 1998

**59** Resource aggregation for fault tolerance in integrated services 77%

**41** networks

Constantinos Dovrolis , Parameswaran Ramanathan

ACM SIGCOMM Computer Communication Review April 1998

Volume 28 Issue 2

For several real-time applications it is critical that the failure of a network component does not lead to unexpected termination or long disruption of service. In this paper, we propose a scheme called RAFT (Resource Aggregation for Fault Tolerance) that guarantees recovery in a timely and resource-efficient manner. RAFT is presented in the framework of the Reliable Back-bone (RBone), a virtual network layered on top of an integrated services network. Applications can request fault tolerance ag ...

**60** Traffic descriptor mapping and traffic control for frame relay over ATM network 77%**41** ATM network

Sudhir S. Dixit , Sharad Kumar

IEEE/ACM Transactions on Networking (TON) February 1998

Volume 6 Issue 1

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**61** Error control schemes for networks: an overview 77%

Hang Liu , Hairuo Ma , Magda El Zarki , Sanjay Gupta

Mobile Networks and Applications October 1997

Volume 2 Issue 2

In this paper, we investigate the issue of error control in wireless communication networks. We review the alternative error control schemes available for providing reliable end-to-end communication in wireless environments. Through case studies, the performance and tradeoffs of these schemes are shown. Based on the application environments and QoS requirements, the design issues of error control are discussed to achieve the best solution.

**62** Performance and reliability analysis of relevance filtering for 77%

scalable distributed interactive simulation

Mostafa A. Bassiouni , Ming-Hsing Chiu , Margaret Loper , Michael Garnsey , Jim Williams

ACM Transactions on Modeling and Computer Simulation (TOMACS) July 1997

Volume 7 Issue 3

Achieving the real-time linkage among multiple, geographically-distant, local area networks that support distributed interactive simulation (DIS) requires tremendous bandwidth and communication resources. Today, meeting the bandwidth and

communication requirements of DIS is one of the major challenges facing the design and implementation of large scale DIS training exercises. In this article, we discuss the DIS scalability problem, briefly overview the major bandwidth reduction techniques c ...

**63** VHDL development system and coding standard 77%

 Hans Sahm , Claus Mayer , Jörg Pleickhardt , Johannes Schuck , Stefan Späth

Proceedings of the 33rd annual conference on Design automation conference June 1996

**64** A system design methodology for software/hardware 77%

 co-development of telecommunication network applications Bill Lin

Proceedings of the 33rd annual conference on Design automation conference June 1996

**65** A system for compiling and debugging structured data processing 77%

 controllers

A. Seawright , J. Buck , U. Holtmann , W. Meyer , B. Pangrle , R. Verbrugghe

Proceedings of the conference with EURO-VHDL'96 and exhibition on European Design Automation September 1996

**66** On the use of VHDL-based behavioral synthesis for telecom ASIC 77%

 design

Mark Genoe , Paul Vanoostende , Geert van Wauwe

Proceedings of the 8th international symposium on System synthesis September 1995

**67** Hierarchical self-healing rings 77%

 Jianxu Shi , John P. Fonseka

IEEE/ACM Transactions on Networking (TON) December 1995

Volume 3 Issue 6

**68** Turmoil at NASA, and numerous funding announcements 77%

 Xiaolei Qian

ACM SIGMOD Record September 1995

Volume 24 Issue 3

Since the last issue of this column six months ago, there have been many interesting program announcements, some of which have already passed deadline. We'll go over these announcements anyway, with the hope that they can get the readers better prepared

for future funding opportunities. But first, we'll talk about the continuing budget battle at Congress, and the recent turmoil at NASA.

**69** Perspectives on ATM switch architecture and the influence of traffic 77%

 pattern assumptions on switch design

Robert J. Simcoe , Tong-Bi Pei

ACM SIGCOMM Computer Communication Review April 1995

Volume 25 Issue 2

Switch designs and the uniform distribution traffic pattern that has been the basis of much switch design analysis are discussed. In particular it is shown that head of line blocking is not the major cause of switch and link underutilization. Switch fabric and buffer system input bandwidth tradeoffs are described. For client server applications it is shown that having the majority of switch buffers on the input side of a switch reduces overall switch buffering.

**70** Traffic descriptors for VBR video teleconferencing over ATM 77%

 networks

Amy R. Reibman , Arthur W. Berger

IEEE/ACM Transactions on Networking (TON) June 1995

Volume 3 Issue 3

**71** A heuristic wavelength assignment algorithm for multihop WDM 77%

 networks with wavelength routing and wavelength re-use

Zhensheng Zhang , Anthony S. Acampora

IEEE/ACM Transactions on Networking (TON) June 1995

Volume 3 Issue 3

**72** A nonblocking architecture for broadband multichannel switching 77%

 P. S. Min , H. Saidi , M. V. Hegde

IEEE/ACM Transactions on Networking (TON) April 1995

Volume 3 Issue 2

**73** Standards: when is it too much of a good thing? 77%

 Robert J. Aiken , John S. Cavallini

StandardView June 1994

Volume 2 Issue 2

**74** Accelerating concurrent hardware design with behavioural 77%

 modelling and system simulation

Allan Silburt , Ian Perryman , Janick Bergeron , Stacy Nichols , Mario Dufresne , Greg Ward

Proceedings of the 32nd ACM/IEEE conference on Design automation  
conference January 1995

**75** RCBR: a simple and efficient service for multiple time-scale traffic 77%

 M. Grossglauser , S. Keshav , D. Tse

ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication October 1995

Volume 25 Issue 4

Compressed video traffic is expected to be a significant component of the traffic mix in integrated services networks. This traffic is hard to manage, since it has strict delay and loss requirements, but at the same time, exhibits burstiness at multiple time-scales. In this paper, we observe that slow time-scale variations can cause sustained peaks in the source rate, substantially degrading performance. We use large deviation theory to study this problem and to motivate the design of Renegotiat ...

**76** Distributed parallel data storage systems: a scalable approach to 77%

 high speed image servers

Brian Tierney , Jason Lee , Ling Tony Chen , Hanan Herzog , Gary Hoo , Guojun Jin , William E. Johnston

Proceedings of the second ACM international conference on Multimedia October 1994

We have designed, built, and analyzed a distributed parallel storage system that will supply image streams fast enough to permit multi-user, "real-time", video-like applications in a wide-area ATM network-based Internet environment. We have based the implementation on user-level code in order to secure portability; we have characterized the performance bottlenecks arising from operating system and hardware issues, and based on this have optimized our design to make the best use ...

**77** An analytical model for partially blocking finite-buffered switching 77%

 networks

James V. Luciani , C. Y. Roger Chen

IEEE/ACM Transactions on Networking (TON) October 1994

Volume 2 Issue 5

**78** Two-dimensional round-robin schedulers for packet switches with 77%

 multiple input queues

Richard O. LaMaire , Dimitrios N. Serpanos

IEEE/ACM Transactions on Networking (TON) October 1994

Volume 2 Issue 5

**79** Performance analysis of two echo control designs in ATM networks 77%

 Zsehong Tsai , Wen-der Wang , Chien-Hwa Chiou , Jin-Fu Chang ,  
Lung-Sing Liang

IEEE/ACM Transactions on Networking (TON) February 1994

Volume 2 Issue 1

**80** Network-based multicomputers: an emerging parallel architecture 77%

 H. T. Kung , Robert Sansom , Steven Schlick , Peter Steenkiste ,  
Matthieu Arnould , Francois J. Bitz , Fred Christianson , Eric C. Cooper ,  
Onat Menzilcioglu , Denise Ombres , Brian Zill

Proceedings of the 1991 ACM/IEEE conference on Supercomputing

August 1991

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### 1 SONET transcoder design for ATM over SONET or directly over fiber

*Jie Chen;*

Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE

International Symposium on, Volume: 2, 6-9 May 2001

Page(s): 229 -232 vol. 2

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) **IEEE CNF**

### 2 Proceedings of ICC '93 - IEEE International Conference on Communications

Communications, 1993. ICC 93. Geneva. Technical Program, Conference Record, IEEE International Conference on, Volume: 1, 23-26 May 1993

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) **IEEE CNF**

### 3 Definitions of restoration mechanism availability and their applications

*Shanzhi Chen; Shiduan Cheng; Bin Chen; Junliang Chen;*  
Communications, 1997. ICC 97 Montreal, 'Towards the Knowledge Millennium'. 1997 IEEE International Conference on, Volume: 1, 8-12 Jun 1997  
Page(s): 283 -287 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(532 KB\)\]](#) **IEEE CNF**

### 4 Mapping distributed interactive simulation network requirements onto broadband networks and services

*Gehl, T.L.;*  
Communications, 1994. ICC 94, SUPERCOMM/ICC '94, Conference Record, Serving Humanity Through Communications. IEEE International Conference on , 1-5 May 1994  
Page(s): 154 -159 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) **IEEE CNF**

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**5 Proceedings of International Conference on Communication Technology. ICCT '96**

Communication Technology Proceedings, 1996. ICCT'96., 1996 International Conference on , 5-7 May 1996

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[\[Abstract\]](#) [\[PDF Full-Text \(2140 KB\)\]](#) **IEEE CNF**

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**6 Cell loss reduction by cell unit interleaving in wireless ATM networks**

*Sung Ho Lim; Dong Myung Ahn; Duk Whan Kim; Dae Young Kim;*  
Communications, 1996. ICC 96, Conference Record, Converging Technologies for Tomorrow's Applications. 1996 IEEE International Conference on , Volume: 1 , 23-27 Jun 1996

Page(s): 449 -453 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(480 KB\)\]](#) **IEEE CNF**

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**7 A 622-MHz interpolating ring VCO with temperature compensation and jitter analysis**

*Wing-Hong Chan; Lau, J.; Buchwald, A.;*  
Circuits and Systems, 1997. ISCAS '97., Proceedings of 1997 IEEE International Symposium on , Volume: 1 , 9-12 Jun 1997  
Page(s): 25 -28 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) **IEEE CNF**

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**8 Experimental and simulation performance results of TCP/IP over high-speed ATM over ACTS**

*Charalambos, C.P.; Lazarou, G.Y.; Frost, V.S.; Evans, J.; Jonkman, R.;*  
Communications, 1998. ICC 98. Conference Record.1998 IEEE International Conference on , Volume: 1 , 7-11 Jun 1998  
Page(s): 72 -78 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(776 KB\)\]](#) **IEEE CNF**

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**9 Design and simulation of three ATM ASICs**

*Chan Kim; Jong Arm Jun; Sang Ho Lee; Jae Geun Kim;*

ASICS, 1999. AP-ASIC '99. The First IEEE Asia Pacific Conference on , 1999  
Page(s): 25 -28

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **IEEE CNF**

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**10 The Zipper prototype: a complete and flexible VDSL multicarrier solution**

*Nava, M.D.; Okvist, G.S.;*  
IEEE Communications Magazine , Volume: 40 Issue: 12 , Dec 2002  
Page(s): 92 -105

[\[Abstract\]](#) [\[PDF Full-Text \(1965 KB\)\]](#) **IEEE JNL**

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**11 Metastability in SCFL**

*Cheney, B.; Savara, R.;*  
Gallium Arsenide Integrated Circuit (GaAs IC) Symposium, 1995.  
Technical Digest 1995., 17th Annual IEEE , 29 Oct-1 Nov 1995  
Page(s): 319 -322

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) **IEEE CNF**

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**12 A heuristic approach to service restoration in MPLS networks**

*Bartos, R.; Raman, M.;*  
Communications, 2001. ICC 2001. IEEE International Conference on , Volume: 1 , 11-14 Jun 2001  
Page(s): 117 -121 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(408 KB\)\]](#) **IEEE CNF**

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**13 An efficient algorithm for virtual topology reconfiguration in WDM optical ring networks**

*Ernest, P.H.H.; Mohan, G.; Bharadwaj, V.;*  
Computer Communications and Networks, 2001. Proceedings. Tenth International Conference on , 2001  
Page(s): 55 -60

[\[Abstract\]](#) [\[PDF Full-Text \(160 KB\)\]](#) **IEEE CNF**

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**14 Joint source-channel multistream coding and optical network adapter design for video over IP**

*Jie Chen; Ray Liu, K.J.;*  
Multimedia, IEEE Transactions on , Volume: 4 Issue: 1 , Mar 2002

Page(s): 3 -22

[\[Abstract\]](#) [\[PDF Full-Text \(1266 KB\)\]](#) **IEEE JNL**

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#### 1 **SDH 10 Gb/s regenerator framer in 0.6 &mu;m CMOS**

*Edman, A.; Rudberg, B.;*

Solid-State Circuits Conference, 1997. Digest of Technical Papers.

44th ISSCC., 1997 IEEE International, 6-8 Feb 1997

Page(s): 156 -157, 447

[\[Abstract\]](#) [\[PDF Full-Text \(948 KB\)\]](#) **IEEE CNF**

#### 2 **0.6 &mu;m CMOS, 622/155 Mbit/s ATM-SDH/SONET framer IC**

*Koziotis, M.; Birbas, A.; Theoharis, S.;*

Electronics Letters, Volume: 35 Issue: 21, 14 Oct 1999

Page(s): 1833 -1834

[\[Abstract\]](#) [\[PDF Full-Text \(172 KB\)\]](#) **IEE JNL**

#### 3 **Four channel DS1 framer**

*Parrella, E.L.; Sin-Min Chang;*

ASIC Conference and Exhibit, 1994. Proceedings., Seventh Annual IEEE International, 19-23 Sep 1994

Page(s): 445 -448

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) **IEEE CNF**

#### 4 **A scalable SDH/SONET framer architecture for datacom and telco applications**

*Herkersdorf, A.; Buchmann, P.; Clauberg, R.; Lemppenau, W.; Schindler, H.R.; Webb, D.;*

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